Bonneville Power Administration
Fish and Wildlife Program FY99 Proposal Form

Section 1. General administrative information

West Fork Squaw Creek Fish Passage Project

Bonneville project number, if an ongoing project 9163

Business name of agency, institution or organization requesting funding
USDA Forest Service, Clearwater National Forest

Business acronym (if appropriate) USDA Forest Service

Proposal contact person or principal investigator:

Name	James Capurso
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Subcontractors.

Organization Mailing Address City, ST Zip Contact Name

NPPC Program Measure Number(s) which this project addresses.

NMFS Biological Opinion Number(s) which this project addresses.

Other planning document references.

Subbasin.
West Fork of Squaw Creek of the Lochsa River of the Clearwater River

Short description.
Replace an impassable culvert at the mouth of West Fork Squaw Creek with a Bridge. The Creek historically supported populations of chinook salmon, steelhead, bull trout, and westslope cutthroat trout. The project would open apprxly 5 miles of stream.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish	X	Construction	X	Watershed
+	Resident fish		O & M	+	Biodiversity/genetics
+	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research	+	Ecosystems
	Climate		Monitoring/eval.		Flow/survival
	Other	+	Resource mgmt		Fish disease
			Planning/admin.		Supplementation
			Enforcement		Wildlife habitat en-
			Acquisitions		hancement/restoration

Other keywords.

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Provide upstream migration for fish and restore ability of stream to use its floodplain at the mouth.	a	Replace the culvert at the mouth of the West Fork of Squaw Creek with a Bridge.

Objective schedules and costs

If you need more rows, press Alt-R. **Press Alt-C to calculate total.**

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	7/1999	8/1999	100.00%

Schedule constraints.
There will be no constraints which would cause schedule changes.

Completion date.
1999

Section 5. Budget

FY99 budget by line item

Alt-C to calculate total.

Item	Note	FY99
Personnel	Provided by USFS	

Fringe benefits	Provided by USFS	
Supplies, materials, non-expendable property	Building of Bridge	$100,000
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags # of tags:		
Travel		
Indirect costs		
Subcontracts		
Other		
TOTAL	$ 100,000	

Outyear costs

Outyear costs	**FY2000**	**FY01**	**FY02**	**FY03**
Total budget	$0	$0	$0	$0
O&M as % of total	0.00%	0.00%	0.00%	0.00%

Section 6. Abstract

Squaw Creek Road was built by the Bureau of Public Roads on Powell Ranger District, Clearwater National Forest in the 1950's. An impassable culvert was placed at its crossing of West Fork Squaw Creek (at the stream's mouth). The culvert blocks the upstream migration of bull trout, chinook salmon, steelhead, and cutthroat trout. The project proposal is to replace this culvert with a wide-spanning (50 feet) bridge, restoring upstream passage of fish and amphibians to at least 5 miles of habitat and restoring the functioning of the stream's floodplain. The total cost of the project, $100,000, is broken out below:

ITEM	ESTIMATED COST
Substructure	$32,000
Superstructure	$37,000
Foundation	$8,000
Bridge Rail	$2,800
Approach Rail	$5,000
Mobilization	$5,200
Removal/Disposal, Hauling, etc.	$10,000
TOTAL	$100,000

Section 7. Project description

a. Technical and/or scientific background.

The West Fork of Squaw Creek is located on Powell Ranger District of the Clearwater National Forest. The impassable culvert is at the mouth of the West Fork of Squaw Creek (T37N R13E NE ¼ S19). The mainstem Squaw Creek Road was constructed in the 1950's. It is likely the impassable culvert was installed at the crossing of the mainline road and the stream in the 1950's also. Chinook salmon, steelhead, bull trout, and

westslope cutthroat trout inhabit the Squaw Creek Watershed. At least 5 miles of habitat exists for all of these species within the West Fork, upstream of the impassable culvert.

Squaw Creek has been identified as one of the priority restoration streams on the Clearwater Forest due to its important fisheries values. There is currently an aggressive road obliteration program occurring in the watershed. Other restoration projects occurring in the watershed include large instream wood placement and road maintenance (sediment abatement).

b. Proposal objectives.

The implementation of this project will result in the replacement of an impassable culvert with a bridge. The bridge will restore the function of the floodplain of the West Fork of Squaw Creek and restore access to the stream for chinook salmon, bull trout, steelhead, and westslope cutthroat trout. The effectiveness of the project will be monitored by FS funded redd counts. The implementation of the project will be reported to BPA through a completion report.

c. Rationale and significance to Regional Programs.

This fish passage project will add at least 5 miles of spawning and rearing habitat for both anadromous and resident fish in the Lochsa River Sub-basin.

d. Project history (for continuing projects).

e. Methods.

The impassable culvert will be replaced with a bridge, restoring stream hydrology and upstream fish passage. No factors will limit success.

f. Facilities and equipment.

The bridge will be installed by a private contractor through a USDA Forest Service contract. The work will be supervised by a qualified FS construction engineer.

g. References.

Section 8. Relationships to other projects

There is currently an extensive watershed restoration program underway in Squaw Creek Watershed. Cooperative work with the Nez Perce Tribe includes a watershed analysis for Squaw and Papoose Creeks and road obliteration. This project ties in nicely with the other restoration projects in the watershed, allowing fish to return and utilize the restored streams.

Section 9. Key personnel

The project is recommended by James Capurso, Powell Ranger District Fisheries Biologist with 11 years of experience as a Fisheries Biologist in the Forest Service and also experience with US Fish and Wildlife Service and US National Park Service. The project will be supervised by Robert Littlejohn, Clearwater Forest Engineer with 15 years experience on the Clearwater National Forest.

Section 10. Information/technology transfer

This project is pretty straight forward, but others would benefit from a good distribution of the completion report.